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AMENDMENTS TO THE CLAIMS

1. **(Original)** A genetic reference standard comprising at least one human genetic reference sequence cloned into a non-mammalian animal cell line.
2. **(Original)** The genetic reference standard of claim 1 wherein the animal cell line is an avian cell line.
3. **(Original)** The genetic reference standard of claim 2 wherein the cell line is a chicken (*Callus spp.*) cell line.
4. **(Currently amended)** The genetic reference standard of any preceding claim 1 wherein the cell line is a B-cell line.
5. **(Original)** The genetic reference material of claim 3 wherein the chicken cell line is the chicken DT40 cell line.
6. **(Currently amended)** A The genetic reference standard according to any preceding claim 1 wherein the at least one human genetic reference sequence is cloned into a dispensable region of the cell's genome.
7. **(Currently amended)** A The genetic reference standard according to any preceding claim 1 wherein the at least one human genetic reference sequence is cloned into a non- expressed region of the cell's genome.
8. **(Currently amended)** A The genetic reference standard according to any preceding claim 1 wherein the cloned cell line is diploid with respect to the human genetic reference sequence.
9. **(Currently amended)** A The genetic reference standard according to any preceding claim 1 wherein the at least one human genetic reference sequence is a plurality of human genetic reference sequences.
10. **(Currently amended)** A The genetic reference standard according to any preceding claim 1 wherein the or each human genetic reference sequence is not a functional chromosome.
11. **(Currently amended)** A method of detecting a genetic variant in a sample containing human DNA comprising:
performing a test, responsive to DNA sequence, on said sample;

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performing the same test on a reference sample embodying the genetic variant to be detected;

comparing the test results obtained from said sample and said reference sample to determine the presence or absence of said genetic variant; ~~characterized in that~~ wherein said reference sample is a genetic reference standard according to ~~any preceding~~ claim 1.